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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,466	01/07/2005	Hirokatsu Hayashi	2005_0004A	5501
513 7590 10/03/2007 WENDEROTH, LIND & PONACK, L.L.P.			EXAMINER	
2033 K STREET N. W.			MARTINEZ, BRITTANY M	
SUITE 800 WASHINGTON, DC 20006-1021		ART UNIT	PAPER NUMBER	
	,		1709	
			MAIL DATE	DELIVERY MODE
			10/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/520,466	HAYASHI ET AL.		
		Examiner	Art Unit		
		Brittany M. Martinez	1709		
Period	The MAILING DATE of this communication ap for Reply	opears on the cover sheet wit	th the correspondence address		
WH - Ex af - If - Fa Ai	HORTENED STATUTORY PERIOD FOR REPAIRCHEVER IS LONGER, FROM THE MAILING Intensions of time may be available under the provisions of 37 CFR 1 ter SIX (6) MONTHS from the mailing date of this communication. NO period for reply is specified above, the maximum statutory period allure to reply within the set or extended period for reply will, by stature to reply received by the Office later than three months after the mailing armed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a re d will apply and will expire SIX (6) MONT tte, cause the application to become ABA	CATION.  Poply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).		
Status					
1)∑	Responsive to communication(s) filed on <u>07</u> .	January 2005.			
_ 2a)[	☐ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.	_		
3)[	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.		
Dispos	ition of Claims				
5)[ 6)[ 7)[	Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdred  Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) 1-12 are subject to restriction and/or	awn from consideration.			
Applica	ation Papers				
	The specification is objected to by the Examir				
10)Ľ	☐ The drawing(s) filed on is/are: a)☐ ac				
	Applicant may not request that any objection to the	*	• •		
11)[	Replacement drawing sheet(s) including the corre  The oath or declaration is objected to by the E	•	• • •		
Priority	/ under 35 U.S.C. § 119				
	Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bureat See the attached detailed Office action for a list	nts have been received. nts have been received in Apority documents have been a au (PCT Rule 17.2(a)).	oplication No received in this National Stage		
Attachm	• •	<b>Λ</b> □ 1	(PTO 440)		
2) No 3) Inf	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO/SB/08) sper No(s)/Mail Date	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application 		

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## **DETAILED ACTION**

Citation to the Specification will be in the following format (S. #, LL) where # denotes the page number and LL is the line number.

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-2, drawn to an easily dispersible silica cake.

Group II, claim(s) 3-4, drawn to a process for producing an easily dispersible silica cake.

Group III, claim(s) 5-6, drawn to a dispersion of precipitated silica.

Group IV, claim(s) 7-8, drawn to a process for preparing a dispersion of precipitated silica.

Group V, claim(s) 9-10, drawn to a coating liquid for an ink-jet recording sheet.

Group VI, claim(s) 11, drawn to a process for making a coating liquid for an inkjet recording sheet characterized by dispersing a precipitated silica cake and a binder in a polar solvent.

Group VII, claim(s) 12, drawn to drawn to a process for making a coating liquid for an ink-jet recording sheet characterized by dispersing a precipitated silica cake, a cationic polymer, and a binder in a polar solvent.

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The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common technical feature in the groups is a dispersion of precipitated silica. This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. Applicant discloses in the instant specification: "... precipitated silica which is prepared by a process referred to as "precipitation process" comprising reacting an aqueous solution of alkali silicate with acid to precipitate silica particles is gathering attention as a material for said dispersions, because it excels in productivity and liquid absorbing property" (S. 2, 15-20). Additionally, U.S. 6,977,065 teaches dispersible precipitated silica.

A review of the cited references makes clear that the claimed invention is not novel over the prior art. Furthermore, these references appear to demonstrate that the claimed technical feature does not define a contribution which each of the inventions, considered as a whole, make over the prior art.

Applicant is advised that in order for the reply to this requirement to be complete, an election of the invention to be examined must be included even though the requirement may be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

- 1. No claim is allowed.
- 2. All pending claims are subject to restriction requirement.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brittany M. Martinez whose telephone number is (571) 270-3586. The examiner can normally be reached Monday-Thursday 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571) 272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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**BMM** 

VICKIEY KIM EXAMINER
SUPERVISORY PATENT EXAMINER